

(19)



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11)

EP 0 735 749 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
17.09.1997 Bulletin 1997/38

(51) Int Cl.⁶: **H04N 5/445**

(43) Date of publication A2:
02.10.1996 Bulletin 1996/40

(21) Application number: **96301902.1**

(22) Date of filing: **20.03.1996**

(84) Designated Contracting States:
DE FR GB

(30) Priority: **28.03.1995 US 412393**

(71) Applicant: **AT&T IPM Corp.**
Coral Gables, Florida 33134 (US)

(72) Inventors:
• **Eick, Stephen Gregory**
Naperville, Illinois 60565 (US)

• **Walpole, Rebecca Anne**
Corvallis, Oregon 97330 (US)
• **Mataga, Peter Andrew**
Naperville, Illinois 60563 (US)

(74) Representative:
Buckley, Christopher Simon Thirsk et al
Lucent Technologies (UK) Ltd,
5 Morningside Road
Woodford Green, Essex IG8 0TU (GB)

(54) **Method and apparatus for finding and selecting a desired data item from a large schedule of data items using a TV set and a controller similar to a TV-remote-control**

(57) An apparatus and method for presenting a viewer with an overall representation of the present number of entertainment programs available for selection given one week of program schedule data for 300 or more channels and one or more filtering criteria to limit the number of items represented in the overall representation. Sequentially applied filters will filter the group of program schedule data items that has at least 100,000 half hour time slots offered by 300 channels each week into a smaller subgroup where individual

consideration of each item of the subgroup can be made in a reasonable time. A set top box drives the display of overall representations or results of filtering criteria on a commercial TV set. Once a reasonable sized subgroup is obtained, other displays provide specific information of the program offerings of the subgroup. Selection of the filtering criteria and selection from within a subgroup is interactively made by a viewer through the use of a controller that looks and operates very much like a TV remote control. This makes the interaction familiar, easy and predictable.

EP 0 735 749 A3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 96 30 1902

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 6)
X A	EP 0 560 593 A (SONY) * column 3, line 35 - column 5, line 45 * * column 21, line 23 - column 22, line 18; figure 19 *	1-6,18 16,17	H04N5/445
X	BRUGLIERA V: "DIGITAL ON-SCREEN DISPLAY A NEW TECHNOLOGY FOR THE CONSUMER INTERFACE" 11 June 1993, CABLE TV SESSIONS, MONTREUX, JUNE 10 - 15, 1993, NR. SYMP. 18, PAGE(S) 571 - 586, POSTES, TELEPHONES ET TELEGRAPHES SUISSES XP000379382 * the whole document *	1-3,9, 11-15	
A	---	18	
X	WO 94 14282 A (DISCOVERY COMMUNICATIONS) * page 3, line 4 - line 19 * * page 4, line 8 - page 5, line 2 * * page 5, line 30 - page 7, line 22 * * page 12, line 7 - line 21 * * page 13, line 14 - line 32 * * page 14, line 12 - page 15, line 2 * * page 23, line 14 - page 24, line 28 * * page 26, line 17 - line 28 * * page 27, line 5 - line 31 * * page 29, line 31 - page 30, line 8 * * page 34, line 28 - page 35, line 5 * * page 51, line 10 - page 52, line 30 * * page 56, line 7 - page 57, line 22 * * page 72, line 15 - page 77, line 25 * * figures 9A, 9B, 13-19 *	1,2,9-15	
A	WO 93 22877 A (ICTV) * page 33, line 4 - page 34, line 34 * * figures 8, 33, 36-41 *	1,2,9-15	

	-/--		
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 2 July 1997	Examiner Berwitz, P
CATEGORY OF CITED DOCUMENTS		I : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons A : technological background O : non-written disclosure P : intermediate document & : member of the same patent family, corresponding document	
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			

EPO FORM 1501 (01.01.1993)



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 96 30 1902

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
P,A	EP 0 645 927 A (THOMSON CONSUMER ELECTRONICS) * column 1, line 44 - line 48 * * column 3, line 5 - line 16 * * column 3, line 53 - column 4, line 10 * * column 5, line 18 - line 54 * * column 6, line 35 - column 7, line 1 * ---	1,9,11,15	
P,A	WO 95 26608 A (LOEWE OPTA) * page 4, line 16 - page 6, line 21 * * page 7, line 4 - line 12 * * page 8, line 4 - page 10, line 27 * * page 11, line 15 - line 31 * * page 13, line 1 - line 12 * ---	1,2,9,11-15	
E	EP 0 721 253 A (SONY) * column 1, line 8 - line 19 * * column 3, line 2 - line 15 * * column 19, line 17 - line 25 * * column 19, line 51 - column 20, line 13; figures 2,23-26 * -----	1,2,9,11-13	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
Place of search THE HAGUE		Date of completion of the search 2 July 1997	Examiner Berwitz, P
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons A : member of the same patent family, corresponding document	

EPO FORM 1503 03.92 (P/0401)